

FIG.1A

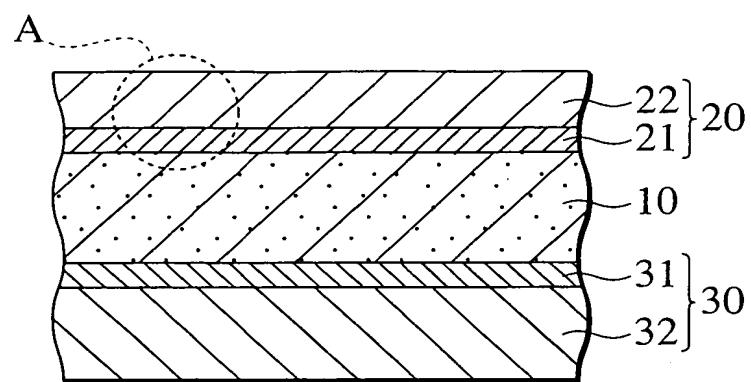


FIG.1B

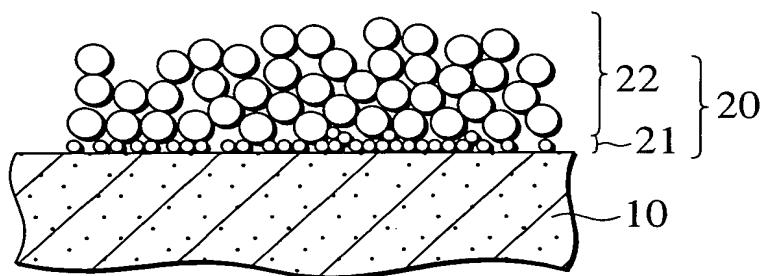


FIG.2

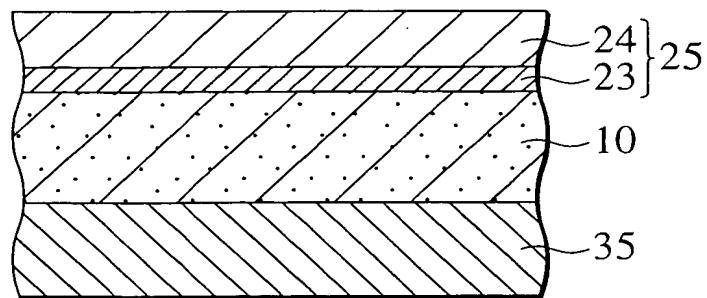


FIG.3A

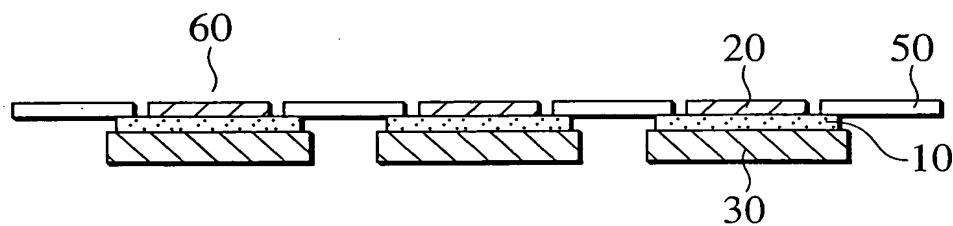


FIG.3B

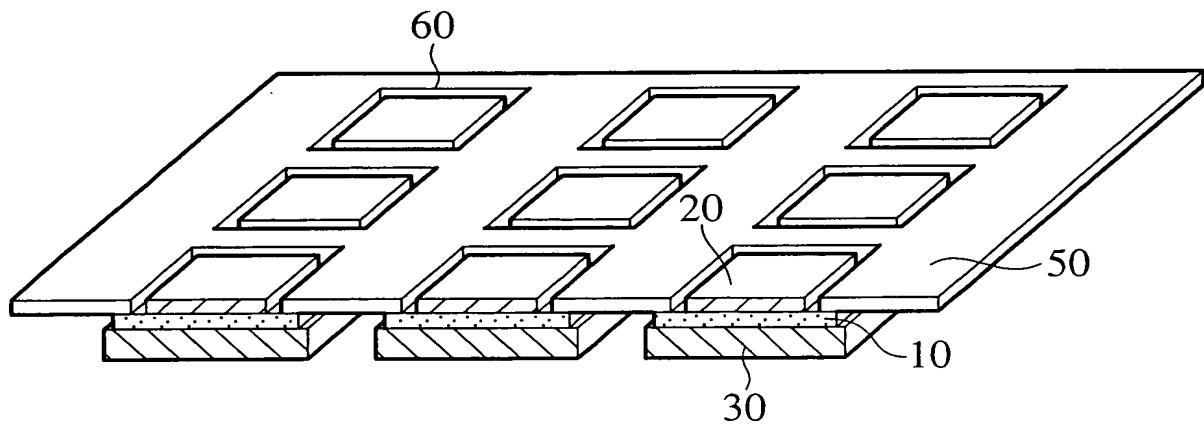


FIG.4A

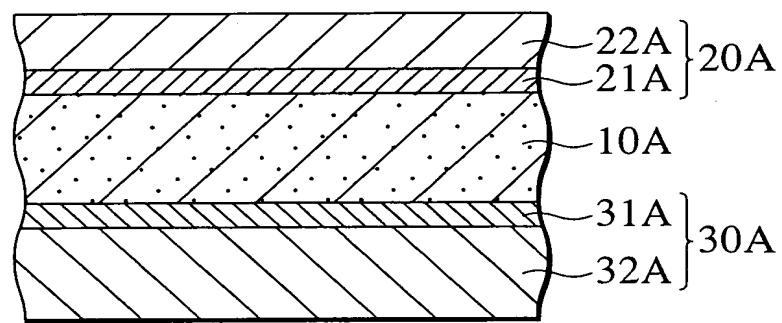


FIG.4B

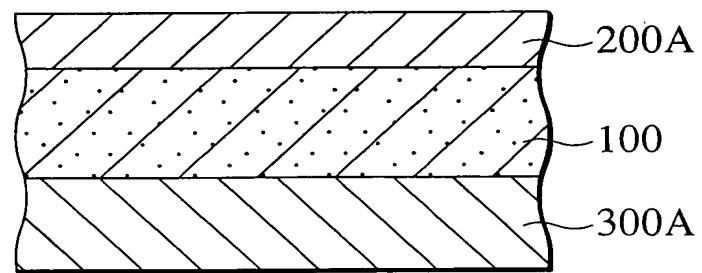


FIG.4C

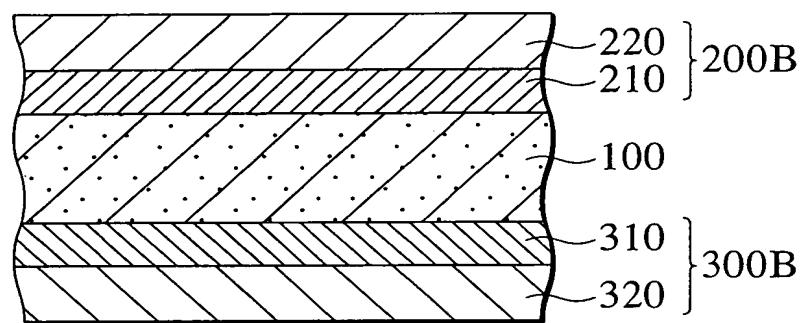


FIG.4D

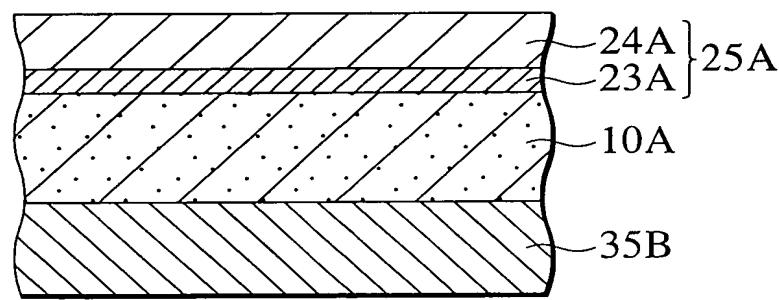


FIG.5

Table. 1

	Air electrode (Ag)			Fuel electrode (Ni)		Peeling property (i=0.4A/cm ² hour)	Cell property (i=0.4A/cm ² hour)
	Lower layer	Upper layer	Lower layer	Upper layer			
Example 1	Sputtering film : 50 nm	Sputtered film : 15 μ m	Sputtering film : 50 nm	Splayed film : 35 μ m	Splayed film : 35 μ m	OK	0.130W/cm ²
Comparative example 1	—	Splayed film : 15 μ m	—	—	Splayed film : 35 μ m	OK	0.12W/cm ²
Example 2	Sputtered film : 0.1 μ m	Sputtered film : 15 μ m	Sputtered film : 0.1 μ m	Splayed film : 35 μ m	Splayed film : 35 μ m	OK	0.127W/cm ²
Comparative example 2	—	Sputtered film : 15 μ m	—	—	Splayed film : 35 μ m	×	0.123W/cm ²
Comparative example 3	Sputtering film : 2 μ m	Sputtered film : 15 μ m	Sputtering film : 2 μ m	Sputtered film : 35 μ m	Sputtered film : 35 μ m	×	0.11W/cm ²

*) The lower layer and the upper layer in the air electrode are an adhering cathode layer and an electricity collecting cathode layer respectively.

*) The lower layer and the upper layer in the fuel electrode are an adhering anode layer and an electricity collecting anode layer respectively.

FIG.6

Tabl.2

Example No	Electrical collecting cathode layer			Adhering cathode layer			Cell resistance (Ω)
	Material	Particle diameter	Material	Baking temperature (°C)	Adhesion strength	Resistance (Ω)	
Example 3	LSC	5 μ m	Ag	1 μ m	Sputtering	800	○ 0.05 2.3
Example 4	LSC	5 μ m	Bismuth oxide	1 μ m	EB deposition	800	○ 0.11 2.5
Example 5	LSC	5 μ m	Ag+LSC	0.1 μ m	Sputtering	850	○ 0.07 6/6
Example 6	LSC	5 μ m	Bismuth oxide+ glass frit	3 μ m	Screen printing	900	○ 0.15 2.8
Comparative example 4	LSC	5 μ m	Nothing	—	—	1100	○ — 350
Comparative example 5	LSC	5 μ m	Nothing	—	—	800	× — 12.5
Comparative example 6	LSC	5 μ m	Ag	10 μ m	Sputtering	850	○ 0.21 56.2
Comparative example 7	LSC	5 μ m	Bismuth oxide+ glass frit	2 μ m	Screen printing	500	× 0.18 3.5